T7: Medium Fidelity Prototype
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Startup Instructions:

Open the following link in Firefox or Chrome:

http://www.ccs.neu.edu/home/zhichun/team/T7/Home.html

System Overview

This is a simple and easy to use email client that requires voice commands and accommodates for each individual's variation of speech differences while recognizing the commands.

Our target population comprises patients of Multiple Sclerosis (MS), Parkinson's disease (PD), Amyotrophic lateral sclerosis (ALS), Traumatic Brain Injury (TBI) and Cerebral Palsy (CP). This population suffers from speech, motor and vision impairments. As a result of these conditions, their voice can be difficult to understand, they do not have the necessary motor skills to handle normal mouse (in significant case they cannot even use their hands at all) and their vision is moderately to severely impaired.

In this population, anyone who can use email uses it to communicate with their family and friends. They typically use regular speech recognition with usability settings turned-on. However, the usability settings of Windows are not good enough. It does change the size of the icons and text, but many options of the email client still are difficult to view and the huge number of options on the screen is cognitively taxing. It takes them more than 45 minutes to write a new

email. According to one of the user we interviewed, “I spend a lot of time and effort to perform very simple tasks, I need something that is very simple”.

This system is trained for the impaired speech of the individual and to increase the robustness of the system, we removed the option of typing in a message. Now the user only needs to record a voice message, which is sent out as an attachment. The recipient does not need this software to listen to this email our users generate. They can just use regular email clients for listening.

The user interface of this system is designed keeping in mind the vision impairments and the high cognitive load of too many options on the screen. Based on target user feedback, we have create the simplest possible system to meet their needs.

Team Credits

Design Flow (Zhichun, Ganesh, Steve, Mansoor)

First Prototype HTML Alone (Ganesh, Steve)

Second Prototype HTML + CSS (Ganesh, Steve)

Third Prototype CSS updates (major) HTML Updates (Minor) (Zhichun)

Fourth Prototype CSS and HTML updates (only design updates) (Zhichun & Mansoor)

Document Write Up (Mansoor)

Document Revision (Steve)

Software Credits:

1.We used code in the following link in the popup window we created.

http://www.mysamplecode.com/2011/05/javascript-popup-box-with-background.html

2.We used code in the following link in the scroll feature.

http://clifgriffin.com/2008/10/14/using-javascript-to-scroll-to-a-specific-elementobject/

3.We used code in the following link in the inbox format and accessed tutorials for coding tips/style.

http://www.w3schools.com/

4.We used this picture in the record page.

https://www.google.com/search?q=0%25+progress+bar&hl=en&safe=strict&source=lnms&tbm=isch&sa=X&ei=pahUUYyEIKuh4AO4IIDoAw&ved=0CAoQ_AUoAQ&biw=1278&bih=634#imgrc=kqhC_ZWfOeV9LM%3A%3BdVvNxa9xkU6HoM%3Bhttp%253A%252F%252Fimage13.spreadshirt.com%252Fimage-server%252Fv1%252Fcompositions%252F19268887%252Fviews%252F2%252Cwidth%253D178%252Cheight%253D178%252CappearanceId%253D1%252FCOMPLETING-HOUSEWORK-0--PROGRESS-BAR-Polo-Shirts.jpg%3Bhttp%253A%252F%252Fwww.spreadshirt.com%252Fprogressive%252Bpolo%252Bshirts%3B178%3B178

5.We used the content in the following link in the Content page.

http://messages.365greetings.com/holiday/easter/easter-greeting-card-messages.html

6.We used the picture in the Content page.

https://www.google.com/search?q=easter&hl=en&safe=strict&source=lnms&tbm=isch&sa=X&ei=N6pUUcv7EMHA4APYqYHoDQ&ved=0CAcQ_AUoAQ&biw=1278&bih=634

7. Graphics created using Inkspace and Microsoft Visio.